



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6

1445 ROSS AVENUE, SUITE 1200  
DALLAS, TX 75202-2733

APR 29 2009

Eric F. Pastor  
Pastor, Behling & Wheeler, LLC  
2201 Double Creek Drive, Suite 4004  
Round Rock, TX 78664

Re: Gulfco Marine Maintenance Superfund Site, Freeport, Texas  
Unilateral Administrative Order, CERCLA Docket No. 06-05-05  
Nature and Extent Data Report

Dear Mr. Pastor,

The Environmental Protection Agency (EPA), the Texas Commission on Environmental Quality (TCEQ), and the Natural Resource Trustees have performed a review of the above referenced document dated March 4, 2009. With this letter, the EPA approves this document with the enclosed modifications. The enclosed modifications shall be incorporated in the referenced document and copies provided to the notification list within 30 days of receipt of this letter.

If you have any questions, please contact me at (214) 665-8318, or send an e-mail message to [miller.garyg@epa.gov](mailto:miller.garyg@epa.gov).

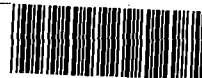
Sincerely yours,

A handwritten signature in black ink, appearing to read "Gary Miller".

Gary Miller, P.E.  
Remediation Project Manager

Enclosure

cc: Luda Voskov (TCEQ)  
Barbara Nann (6RC-S)



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## GENERAL TECHNICAL REVIEW COMMENTS

1. A figure showing the potential source areas (PSAs) shall be included in the NEDR. It is difficult to directly correlate sample locations with their intended purpose when cross-referencing the Nature and Extent Data Report (NEDR) with the Work Plan. A total of 13 PSAs were identified in the Work Plan (PBW 2005) and SAP (PBW 2005) as requiring investigation, with tables prepared by PBW that identified the number of samples necessary to evaluate each source.
2. An updated, as appropriate, version of the Conceptual Site Model(s) shall be included with the NEDR.
3. The preliminary screening values (PSVs) for total polycyclic aromatic hydrocarbons (PAHs) in sediment shall be included. Currently, PSVs for individual PAH compounds are listed in the draft NEDR. TCEQ (2006) also provides low and high molecular weight PAH benchmarks (marine only) and total PAH benchmarks. The benchmarks for total PAHs are the most relevant for evaluating risk to the benthic community because PAHs almost always occur in the environment as mixtures. Values for individual and low and high molecular weight (MW) PAHs are mostly provided as guidelines to aid in the determination of disproportionate concentrations of more toxic individual PAHs within the mixture (i.e., as represented by an exceedance of a second effects level) that may be masked by the concentration for total PAHs. The total PAH benchmarks are based on the thirteen parent PAH compounds listed in Table 3-3 of TCEQ (2006) guidance, meaning that when the person uses a total PAH benchmark for screening, it is appropriate to have a value for all thirteen PAHs included in the sum. This is accomplished by using proxy values for the analyzed but undetected PAHs, and adding them to the concentrations of the detected PAHs for comparison to the total benchmark. See TCEQ (2006), Section 3.5.4 Sediment Benchmarks for further detail.
4. It appears that several compounds (PAHs, metals, pesticides) exceed their sediment PSVs for benthic invertebrates and may warrant further ecological investigation. If so, bulk sediment toxicological testing and the development of a sediment toxicity work plan apply and should be reviewed as a part of the ecological risk assessment process.

## SPECIFIC TECHNICAL REVIEW COMMENTS

1. **Sec. 2.3.3: Fish Tissue, p. 13:** Describe how the fish tissue was sampled (i.e., fillet or whole body).

2. **Appendix B:** The background concentration tolerance limit calculations were based on analyses performed by ProUCL. However, these model outputs and goodness of fit tests were not provided. These shall be included in this section.
3. **Appendix B:** The sample sizes are not included in the summary table. These shall be added to the table.